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PATENT

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TELEPHONE MARKETING SYSTEM

Background of the Invention

The present invention relates to a telephone marketing system and, more particularly, to a telephone marketing system for selectively modifying an existing telephone network by replacing at least a portion of an audible call progress signal generated by the telephone network by a prerecorded announcement and by modifying a portion of the existing call processing software of the telephone network.

Most conventional telephone networks provide a calling party with ^{an audible ringback} a ringing signal when an intended called party's telephone line is idle, and a busy signal when the intended called party's telephone line is already occupied, i.e., ^{at the called station} the called party is using the telephone. Many calling parties become frustrated when encountering a busy signal, especially since the tone used to signify a busy signal is normally annoying. The time a calling party remains on the line and attempts to redial the ^{called station} intended called party's telephone while a particular line is busy normally represents wasted time and occupies phone equipment without generating income. It would be beneficial to be able to productively occupy the time that the calling party is on the phone line without annoying the calling party by requiring the calling party to listen to a busy signal.

Likewise, when the called ^{station's} party's line is idle, the period of time in which a calling party remains on the line while waiting for ^a the called party to answer the phone can be considered to be wasted time and money.

A It would be advantageous to have a telephone system which would replace the ^{audible ringback} ringing and busy signals initiated by the conventional telephone network by a series of prerecorded announcements which would provide
5 the calling party with useful information. When the ^{at the called station is answered} called party answers the telephone, the announcements would discontinue and the call would be connected in the usual manner. In addition, the announcements are also discontinued if the calling party abandons the call.

10 The present invention is directed to a telephone marketing system which is capable of replacing a busy signal or ^{audible ringback} ringing signal by one or more prerecorded announcements. The present telephone marketing system notifies the calling party that the line is either busy or
15 idle and, if busy, that the line will be automatically retried for completion in a predetermined amount of time. If the line is idle one or more prerecorded announcements are played for the caller, the announcements continuing
B until the ~~called party answers the phone~~ ^{at the called station is answered}. At that time,
20 the announcements are discontinued and the call is completed. If the ^{station's} called party's line is busy, a number of prerecorded announcements are played for the predetermined amount of time. The announcements can vary in subject
B 3 matter. Once the ^{station's} called party's line is determined to be
B 25 idle, i.e., ^{at the} the ^{station is no longer in use} called party is not using the telephone, the calling party is automatically connected to the called
B ^{station} party and the announcements are terminated.

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Summary of the Invention

Briefly stated, the present invention is
30 directed to a marketing system for selectively modifying an existing telephone network by modifying a portion of the call processing software of the existing telephone network and by replacing at least a portion of an audible call progress signal generated by the telephone network by

a prerecorded announcement. The marketing system comprises means for placing a telephone call by a calling party at a first telephone, means for connecting the telephone call to an identified called party at a second
5 telephone having a particular calling status, means for determining the busy/idle status of the second telephone, and means for playing at least one announcement to the calling party for a predetermined period of time during a time period when an audible call progress signal would
10 have been produced.

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Brief Description of the Drawings

The foregoing summary, as well as the following detailed description of a preferred embodiment, will be better understood when read in conjunction with the
15 appended drawings. For the purpose of illustrating the invention, there is shown in the drawings an embodiment which is presently preferred, it being understood, however, that the invention is not limited to the specific methods and instrumentalities disclosed. In the drawings:

P 20 Fig. 1 is a block diagram of a telephone marketing system in accordance with the present invention;

P Fig. 2 is a schematic block diagram of a message generator located within the telephone marketing system of Fig. 1; and

P 14 25 Figs. 3-8 are flow charts of the call handling procedure of the telephone marketing system of Fig. 1 and its interaction with the telephone network call handling procedures.

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Detailed Description of the Preferred Embodiments

Referring to the drawings wherein like numerals indicate like elements throughout, there is shown in Fig. 1 a schematic block diagram of a telephone marketing system 10 in accordance with the present invention. With

B I 5 the system 10, a calling party places a call at a first location by means of a conventional telephone 12 such as, but not limited to, a rotary dial or touch tone telephone instrument well known in the art. The telephone 12 could also be connected to a video display terminal ^{12a} ~~(not shown)~~ for transmission of video signals, such as a computer terminal. It is to be understood by those skilled in the art that ^{B1} the telephone marketing system 10 is not limited to a conventional telephone system. The telephone 10 marketing system 10 can be used with any state of the art communication system.

As is well known in the art, when the calling party removes the handset 11 from the base of the telephone 12, a connection is formed with a first local 15 central office 15, which is usually associated with a local telephone company. The first local central office 15 transmits a dial tone back to the first telephone 12. The telephone number dialed or otherwise entered by the calling party into the telephone 12 is transmitted to the 20 local central office 15 as a series of signals which are detected by a computerized switch 18 located within the first central office 15. The switch 18 is responsible for determining the destination of the call based upon the transmitted signals. The switch 18 transmits the call 25 initiated by the calling party over the telephone network 19 ^{toward} ~~to~~ an identified called ^{station} ~~party~~ at a second telephone 20. The called ^{station} ~~party~~ is identified by the telephone number entered by the calling party at the first telephone 12. In the preferred embodiment, the telephone network 19 is a 30 local exchange network, however, the telephone network 19 could also be an interexchange or long distance network. It is also possible to have the calling party and the 35 called ^{station} ~~party~~ served by the same switch.

B The call from the calling party is received by 35 a second computerized switch 22 located at a second local

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central office 21 which determines if the second telephone 20 is in a busy or an idle state. An attached network signaling system 23 can also determine busy/idle status of the called ^{station} party. The specific procedures by which a switch or an attached network signaling system determines the busy/idle status of the called ^{station} party is well-known to those skilled in the art and will not be discussed further.

The switch 18 is connected to an audible generator or audible signal generator 14 which is capable of generating ^{an audible ringback} a ring signal if the called ^{station's} party's line is idle, i.e., the called ^{station} party is not using the telephone 20, or a busy signal if the called ^{station's} party's line is busy, i.e., the called ^{station} party is using the telephone 20. ^{is in use} As will be discussed hereinafter, the switch 22 or an attached network signaling system (ANSS) 23 determines the status of the telephone 20 of the called ^{station} party and instructs the audible signal generator 24 or notifies switch 18 to instruct the audible signal generator 14 to transmit the proper ^{call progress} signal, i.e., either ^{an audible ringback} a ring or a busy signal. The audible signal generator 14 is of a type well known in the telephone art and therefore will not be discussed further. The second switch 22 is connected to a conventional second audible signal generator 24. Depending on the configuration of the telephone network, either audible signal generator 14 or 24 can transmit the proper signal to telephone 12.

A message generator 16 is also connected to the switch 18 and is capable of supplementing and/or replacing the signals generated by the audible signal generator 14. The switch 18 or an attached network signaling system 23 determines whether the audible signal generator 14 or the message generator 16 is activated as discussed herein-after. For purposes of discussion, audible signal generator 14 and message generator 16 will be assumed to

be providing signals and/or announcements to telephone 12. As with the first audible signal generator 14, the second audible signal generator 24 is connected to a second switch 22 as is message generator 26 which is similar to the first message generator 16. Message generators 16 and 26 can alternatively be located at an attached signaling system service node location.

Announcements are enabled by inserting a software subroutine into the call processing software of the telephone network. It is well-known to those in the art the various ways the software can be incorporated into the call processing system of the telephone network and will not be discussed further. This subroutine causes call processing procedures to be modified and allows the message generator 16 to become an integral part of the call completion sequence. The switch 22 or the ANSS 23 first determines the ^{initial} busy/idle status of the telephone 20. On a busy condition, the switch 22 or the ANSS 23 suspends call processing for a predetermined period of time. Simultaneously, the switch 22 or ANSS 23 signals message generator 16 to initiate an announcement sequence. After the predetermined period of time, the switch 22 or the ANSS 23 rechecks the busy/idle status of the telephone 20 and then communicates the status to the message generator 16. The software subroutine is designed to allow for regular checking of busy/idle status and for two way communication with the message generator 16.

If the second telephone 20 is idle, i.e., the telephone is not being used by the called party, the second switch 22 or the ANSS 23 can either activate the audible signal generator 14 to produce a conventional ring signal or can activate the message generator 16 to play a series of prerecorded announcements to the calling party for a predetermined period of time. Message generator 16 is also capable of producing a conventional ring signal in

A place of audible signal generator 14. In either case, the resulting message or ^{audible ringback} ~~ring~~ signal indicates to the calling party that the second telephone 20 is not currently in use. If the second telephone 20 is busy, i.e., a party is currently using the telephone 20, the second switch 22 or an ANSS 23 can either activate the audible signal generator 14 to generate a busy signal or activate the message generator 16 to play a series of prerecorded announcements to the calling party at intervals for a predetermined period of time while periodically checking to determine if the called ^{station} ~~party~~ is still ~~using the second~~ ^{busy} ~~telephone 20~~. Message generator 16 is also capable of producing conventional busy signals in place of audible signal generator 14. The resulting message and/or busy signal indicates to the calling party at the first telephone 12 that the called ^{station} ~~party~~ is busy and if a message is played, indicates that the system will automatically retry to make the connection to the second telephone 20 within a predetermined period of time. A possible time frame for retrying to make the connection to the second telephone 20 is every 15 seconds; however, it is to be understood by those skilled in the art that any other suitable time frame including a variable time frame could be used.

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25 In the preferred embodiment, the marketing system 10 selects the type of announcements which are played to the calling party. The marketing system 10 can also determine when a particular announcement is to be played based on a number of ^{criteria or} ~~factors~~, such as, but not limited to, time of day, day of week, month of year, or area code and/or telephone exchange of calling party. When a calling party initiates a call to the second telephone 20, the message generator 16 can use an automatic number identification (ANI) system or equivalent

which is well-known in the art to identify the area code and telephone number of the calling party.

If the message generator is set to determine which announcements are to be played based upon the area
5 code and telephone number of the calling party, the message generator 16 can read the telephone number of the calling party as provided by the telephone network and determine the geographical location of the calling party by matching up the telephone number with a location
10 provided by a look up table located in the memory (not shown) of the message generator 16. The message generator 16 determines which announcements are designated for that particular area code and telephone exchange and plays the prerecorded messages in a predetermined segment of time
15 until the ~~called party answers the telephone~~ ^{is answered} 20 or until the calling party abandons the call.

The message generator 16 can also play certain messages based on the time of day, day of week, month of year or any other time frame reference. A clock (not
20 shown) located within the message generator 16 monitors the time of day, day of week, day of month, month of year and year. When a call is placed to the second telephone 20 by the calling party, and the message generator 16 has been signaled to initiate a message sequence, the
25 information from the clock is read by the message generator 16 and is compared to information located in a look up table in the memory of the message generator 16 to determine which messages are to be played. The message generator 16 continually retrieves the designated messages
30 in predetermined segments of time until ~~the called party answers the telephone~~ ^{is answered} 20 or the calling party abandons the call. It should be appreciated that, if desired, live announcements may be provided under control of the message generator 16.

Referring specifically to Fig. 2, there is shown a block diagram depicting the internal components of a preferred embodiment of a message generator 16. Each message generator 16 comprises a processor or microprocessor 100 for processing the stored announcements and transmitting the announcements to a calling party through the telephone network. In the preferred embodiment, the microprocessor 100 is ^{of a type which is contained in} a IBM compatible personal computer. However, it is to be understood by those skilled in the art that any other type of computer or microprocessor can be used in conjunction the message generator 16. A storage device 102 is connected to the microprocessor 100 and acts as a mass storage device for storing all of the pre-recorded announcements, all associated data, as well as the software necessary for control of the message generator and for associated processing. The storage device 102 is preferably either a magnetic hard disk or an optical storage device, such as, but not limited to, a CD ROM, CD-I, or optical disk.

Data relating to a specific pre-recorded announcement is transmitted from the storage device 102 to the memory (not shown) located within the microprocessor 100 to enable processing of the announcements. The pre-recorded announcements are stored within the storage device 102 until the announcements are retrieved by the microprocessor to be transmitted to the calling party. In the preferred embodiment, the message generator also comprises a digital audio converter or card 106 and/or a video card (not shown) for containing digital pre-recorded advertisements which can be transmitted to the calling party, or if the calling party has a communication system having video capabilities, a video announcement can be transmitted from the video card.

A clock (not shown) is located within the microprocessor 100 and monitors the period of time

necessary for each announcement to be played. The time is recorded and stored within the storage device 102 of the microprocessor 100. The clock is also capable of recording the period of time necessary for a sequence of messages to be played to a calling party during a particular phone call.

When an announcement or a series of announcements are to be played to a calling party, the telephone switch 18 or the ANSS 23 is connected to the microprocessor 100 via a communication interface device 104, which allows for the transfer of information to and from the message generator 16 through the telephone network. In the preferred embodiment, the communication interface is a digital data communications port (DDCP). Once the microprocessor 100 receives a signal from the telephone switch 18 or the ANSS 23, an announcement is retrieved from the storage device 102. The digitally stored announcement is transmitted to the digital audio converter 106 which converts the digital signals into an audio announcement. The audio announcement, once processed, is transmitted to the calling party located at the first telephone 12. An interface jack 108 is connected to the digital audio converter 106 to permit audio announcements to be converted to digital format for storage within the storage device 102.

The microprocessor 100 is also connected to a main controller 17 via a communication interface 103, such as a modem, and acts as a main processing system for all of the message generators located within the communication system. The main controller 17 is capable of logging each announcement which is played to a calling party into its data files. In the preferred embodiment, the controller 17 records the announcement's file name, play time, geographical area in which the announcement has been played and the billing charge for the played announcement. It is to be understood by those skilled in the art, that

3 the main controller 17 can store any information which is considered to be pertinent to the system's billing and processing requirements. The main controller acts as the central recordkeeping and billing location.

14 5 Referring specifically to Figs. 3-8, there is shown a flow chart diagram depicting call handling procedures which can be performed by the telephone marketing system 10 in accordance with the present invention.

Referring specifically to Fig. 3, a call is received from 10 a first telephone 12 located at a first location via a local or interexchange telecommunications network to a first central office 15 at block 30. The called party's switch 22 located at a second local central office 21 receives the incoming call and it or the ANSS 23

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B 15 determines the ^{initial} status of the second telephone 20 of the identified called party ^{station} at block 32. If the second telephone is idle, the telephone marketing system 10

Ins a1 ~~enters a ringing sequence as illustrated in Fig. 6.~~

91 The second switch 22 located at the second 20 local central office 21 or an ANSS 23 switches on a message generator 16 at block 36. The message generator 16 plays at least one prerecorded announcement over the telephone line to the calling party at the first telephone 12 at block 40. In the preferred embodiment, the prerecorded announcements are played in predetermined segments 25 of time. Each segment of time comprises a number of short messages and/or advertisements which are digitally stored within the telephone marketing system 10 and are designed to fill a 5-30 second time span. It is to be understood 30 by those skilled in the art that the time frame for each segment of time is arbitrary and that the announcements can be played in any predetermined segment of time. The message generator 16 determines the type of announcements and the duration in which the announcements are to be 35 played at block 38.

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As discussed above, the announcements to be played are determined by comparing information, such as the telephone exchange of the calling party or the time of day, to a look up table located within the message generator to determine which messages are to be played. The commencement of the playing of the announcements is illustrated in Fig. 7. Once the playing format is determined in block 38, the digitally stored announcements are retrieved from the memory of the message generator 16 at block 39. The information is translated to audio and/or video signals at block 41.

Once the announcements are retrieved from memory, the message generator 16 plays a series of announcements to the calling party at the first telephone 12 at block 40. If the ^{is answered} ~~called party answers the~~ second telephone 20, the message generator enters a completed call sequence which is illustrated in Fig. 5 beginning at 3A and which will be described hereinafter. If the ^{is not answered} ~~called party does not answer the~~ second telephone 20, the telephone system 10 through switch 18 or an ANSS 23 determines if the calling party is still off-hook on the first telephone 12 at block 42. If the calling party is still off-hook on the first telephone 12, the message generator returns to 5B and repeats the steps described in blocks 40 and 42. If the calling party has abandoned the call, the message generator 16 enters a completed call sequence which is illustrated in Fig. 5 beginning at 3A and which will be described hereinafter.

Referring now to Fig. 3, if the second telephone 20 is ^{initially} ~~identified called party or another party is currently~~ determined to be busy at block 32, i.e., ^{is in use} ~~using~~ the second telephone 20, then the switch 22 at the second local central office 21 or an ANSS 23 determines whether there is enough network capacity available to activate the telephone marketing system 10 to prevent a

network overload at block 46. If the current network load is greater than the established maximum network load, then the switch 22 or an ANSS 23 instructs the audible signal generator 14 to generate a standard busy signal as shown
5 at block 48. The calling party abandons the call by disconnecting the first telephone 12 and the call is terminated as shown at block 50. If the current network load is determined to be less than the established maximum
10 network load at block 46, the switch 22 or the ANSS 23 suspends call processing for a predetermined period of time and activates the message generator 16 to initiate a sequence of prerecorded announcements at block 52 as further illustrated in Fig. 4.

In the preferred embodiment, the message
15 generator 16 first instructs the calling party to remain on the telephone 12 and informs the calling party that the call to ~~the identified called party at~~ the second
B telephone 20 will be attempted to be completed at regular intervals at block 54. Communication messages are passed
3 20 between the message generator 16 and the network's call processing software system to determine the current status of the second telephone 20. Simultaneously, the message generator 16 determines the type of announcements that should be played and the duration in which they will be
25 played at block 56. The message generator 16 then preferably generates digitally stored advertisements and/or messages to the calling party at the first telephone 12 for a predetermined period of time at block 60. It is to be understood by those skilled in the art
30 that any type of advertisement and/or message can be generated by the message generator 16. The information is translated to audio and/or video signals at block 61. When the predetermined time period has expired, the switch 22 or the ANSS 23 resumes call processing to determine
35 whether the second telephone 20 is still busy at block 62.

If the second telephone 20 is still busy, call processing is again suspended for a predetermined period of time and the switch 22 or the ANSS 23 notifies the message generator to return to 2A and repeat the steps in blocks 14 5 54-62. A sequence of additional announcements are played to the calling party at the first telephone 12 and call processing to the second telephone 20 is again retried within a predetermined period of time. If the second telephone 20 is not busy as determined by switch 22 or the 10 ANSS 23, the switch 22 or the ANSS 23 notifies the message generator 16 to continue to play its announcements until it reaches completion of its current announcement (block 64) and then signal to switch 22 or the ANSS 23 to complete call processing to ~~the identified called party at~~ 15 the second telephone 20 at block 66. The message generator then proceeds to the ringing and call completion sequence as shown in Fig. 5 or the call completion sequence as shown in Fig. 6.

Referring specifically to Fig. 5, once the 20 second telephone 20 is determined to be idle, the switch 22 initiates a power ring which will cause telephone 20 to ring by applying the appropriate voltage and current to the line between telephone 20 and switch 22. Once the identified called ^{station} party answers the call by lifting the 25 receiver of the second telephone 20 at block 70, the calling process is completed. At the completion of the call, the message generator 16 enters a call completion sequence and records the time, date and the type of announcements which have been played in the memory of the 30 microprocessor 100 at block 74. Internal software in the message generator 16 cross-references the number of announcements played to the calling party at the first telephone 12 to the party which is sponsoring each of the announcements at block 76. In the preferred embodiment, 35 the sponsoring party can be an advertiser or some other

type of a billable or non-billable client. Next, the message generator 16 provides a billing schedule for determining the amount in which the sponsoring party should be charged at block 78. In the preferred
5 embodiment, the message generator 16 is also capable of dialing to or be dialed by remote computing equipment (not shown) in order to transfer billing records so that the appropriate sponsoring party can be billed at block 80. In an alternative embodiment, regional computing equipment
10 which receives billing records from remote message generators can connect with central computing equipment for central billing and processing at block 82.

Referring specifically to Fig. 6, there is shown an alternative call completion sequence after the
15 encountering of an initial busy condition. Once the telephone marketing system 10 signals switch 22 or the ANSS 23 to resume call processing as shown in block 66, the second switch 22 initiates the power ringing sequence to the called ^{station} party at the second telephone at block 34.
20 Next the switch 22 at the second local central office 21 or the ANSS 23 signals to the message generator 16 to begin executing announcements at block 36. The message generator 16 then determines the announcement sequence to be played at block 38. The playing of the announcement
25 sequence is shown in Fig. 7 and has been described above and will not be discussed further.

3 The telephone network through which the party is calling can be an intelligent network, i.e., a network which utilizes advanced signaling techniques or a network
30 having automated number identification (ANI) or a network having integrated services digital network (ISDN) capabilities. The previously described attached network signaling system 23 in this embodiment is part of intelligent network or ISDN capabilities. Automatic number
35 identification or equivalent is a feature of a local

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Q exchange, interexchange or long distance network which passes the ~~number~~ area code and telephone number of the telephone of the calling party into the network where it is then available for processing. Services, such as ISDN, are an array of new equipment, protocols, facilities and services, which, when implemented, allow for certain advanced telecommunication capabilities. The message generator 16 can interact with the intelligent network via existing service nodes which are well-known in the art and will not be discussed further. By connecting the message generator 16 to the intelligent network, the message generator 16 is capable of utilizing many of the services available within the intelligent network as shown in Fig. 8 and will be described as follows.

15 The message generator 16 receives and sends network signals using the existing intelligent network to accomplish various functions at block 86 (Fig. 8). The message generator 16 is capable of interacting with the calling party so that, for example, the calling party can obtain additional information relating to a particular announcement or select different types of advertising at block 88. At the appropriate prompt provided by the message generator 16, a calling party could respond either by voice or by pushing the appropriate buttons on a standard touch tone phone or by pressing a key on a keyboard to a computer or employ a touch screen or any other device capable of transmitting and receiving signals. Once the message generator 16 detects the assertion of a given prompt by the calling party, the microprocessor 100 identifies the telephone number of the calling party using ANI or equivalent, and connects the calling party to a third party which can provide additional information. The telephone number of the additional party is obtained by retrieving the telephone number from a look up table located within the memory of

the microprocessor 100. Once the telephone number of the third party is obtained, the message generator 16 interacts with the telephone network to enable the connection of the calling party to the third party. For example, if the announcement relates to a sale at a particular retail store, the calling party can be connected to the retail store automatically to obtain additional information. It is to be understood by those skilled in the art that additional information can be obtained for any announcement which is played provided that an appropriate prompt is initiated by the message generator. If a calling party decides to obtain additional information relating to a particular announcement, the calling party is permanently disconnected from the original call and must redial the original ^{called station} party at a later point in time. Alternatively, the message generator can provide upon a given prompt by the calling party a recording of the telephone number of the third party, who can provide additional information. The phone number of the third party is identified by referring to a look up table located within the memory of the microprocessor 100.

In an additional embodiment, the calling party can receive additional information by providing the mailing address of the calling party to the message generator 16. One method is for the calling party to respond to an offer of additional information by providing a given prompt. The message generator then requests the calling party's name and address so that additional information can be provided. The calling party provides a name and address which is recorded in the memory of the message generator 16. The name and address of the calling party and the request for additional information is transferred to the identified third party for further processing, such as a follow-up call or mailing of printed information. In an alternative embodiment, the message

B generator 16 is capable of identifying the ANI or
equivalent of the calling ^{station} party when the message generator
16 receives a given prompt. Once the ANI of the calling
B ^{station} party is identified, the ANI is compared to a reverse
5 telephone directory located within the memory of the
microprocessor 100 or the controller 17 from which the
name and address of the calling ^{station} party is retrieved. The
B name and address of the calling ^{station} party is transmitted to
the identified third party for further processing.

10 The types of advertisements or messages which
can be directed to the calling party can refer to certain
types of business machines, certain communication systems,
or the products manufactured and/or sold, or services
provided by a particular corporation. It is to be under-
15 stood by those skilled in the art, that the advertisements
can be of any particular subject matter and are not
restricted to those mentioned above. The message
generator 16 is also capable of inquiring if the calling
party wishes to be sent follow up information at block 90.
20 If the calling party answers in the affirmative, the
message generator 16 can record the name and address or
fax number of the calling party and establish a customer
mailing list therefrom. The calling party responds to the
message generator 16 by either pushing a specified button
25 on the face of the telephone if the calling party is using
a touch tone telephone or a keyboard if the calling party
is attached to a computer, or a voice activated response
which would be transmitted to a device capable of
3 recognizing and recording the calling party's response for
30 later processing. The message generator can also provide
calling parties with a directory type service whereby a
3 calling party could browse through an advertiser's product
listings at block 92. Such a service would be
advantageous if a sponsoring party produced or
35 manufactured a large number of products. Along with the

listing, a caller could have the capability to request additional information, such as, but not limited to prices and quantity. As discussed above, if the calling party wishes to obtain additional information, the calling party
5 can assert a given prompt to cause the message generator to ^{connect} ~~correct~~ the calling party to a third party.

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If the address of the calling party is not identified during the announcement sequence, the message generator 16 is capable of matching the originating
10 telephone 12 of the calling party with the records of the sponsoring party to provide a mailing address for a follow up response at block 94. If the telephone network has ANI or equivalent capabilities, the system can immediately
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12 identify the calling ^{station by its} ~~party by their~~ identification number, i.e., ^{its} ~~their~~ telephone number. In addition, the message
15 generator 16 can provide a recorded customer list at block 96 which can become a permanent part of the sponsoring
3 party's records and be included along in billing invoices.

It is to be noted that at the completion of any
20 option of the telephone marketing system 10, the system 10 can monitor the status of the call through switch 18 or the ANSS 23, determine billing, and record relevant data about the advertisements which were played as described in
14 blocks 74 - 80 of Fig. 5 which have been described
25 previously.

From the foregoing description, it can be seen that the present invention comprises a telephone marketing system for selectively modifying an existing telephone network by replacing at least a portion of an audible call
30 progress signal generated by the telephone network by a prerecorded announcement and by modifying a portion of the existing call processing software of the telephone network. It will be appreciated by those skilled in the art that changes could be made to the embodiment described
35 above without departing from the broad inventive concept

thereof. It is understood, therefore, that this invention is not limited to the particular embodiment disclosed but it is intended to cover all modifications which are within the scope and spirit of the invention as defined by the
5 appended claims.

We claim:

Claims 1-7